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10		DISTRICT COURT Γ OF WASHINGTON
11	STATE OF WASHINGTON,	NO. 2:08-cv-05085-FVS
12	Plaintiff,	PLAINTIFF STATE OF
13	and	WASHINGTON'S PETITION TO AMEND
14	STATE OF OREGON,	CONSENT DECREE
15	Plaintiff-Intervenor,	Hearing Date Requested
16	V.	Oral Argument Requested
17	ERNEST MONIZ, Secretary of	
18	the United States Department of Energy, and the UNITED	
19	STATES DEPARTMENT OF ENERGY,	
20 21	Defendants.	
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1	TABLE OF ACRONYMS
2	DFLAW – Direct Feed Low Activity Waste Facility
3	DOE – Department of Energy
4	DST – Double-Shell Tank
5	HFFACO – Hanford Federal Facility Agreement and Consent Order
6	HLW – High Level Waste
7	HWMA – Hazardous Waste Management Act (Washington State)
8	RCRA – Resource Conservation and Recovery Act (federal)
9	SST – Single-Shell Tank
10	WAC – Washington Administrative Code
11	WTP – Waste Treatment Plant
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I. INTRODUCTION

In 2008, the State of Washington (Washington, or State) filed suit in this Court to remedy missed and certain-to-be missed milestones for cleanup of the Hanford Nuclear Reservation. The milestones were for the United States Department of Energy (Energy) to: (1) by 2011, build and begin operating a treatment plant to convert into glass Hanford's millions of gallons of high-level radioactive and hazardous tank waste, much of which is stored in aging, leak-prone single-shell tanks; (2) by 2018, finish retrieving waste from all 149 of those single-shell tanks; and (3) by 2028, finish treating all of the tank waste. The suit sought to re-establish an enforceable legal schedule for these tasks, which had come so far off track that Energy no longer held itself accountable to the schedule in place.

In 2010, this Court entered a Consent Decree resolving the suit between Washington and defendant Energy. The Consent Decree was part of a broader settlement that put under this Court's jurisdiction nearer-term deadlines to finish the treatment plant and retrieve 19 single-shell tanks, while establishing new, longer-term deadlines in the Hanford Federal Facility Agreement and Consent Order (HFFACO, also known as the "Tri-Party Agreement") for retrieving all the remaining single-shell tanks and treating all the tank waste. Even the "nearer-term" Consent Decree deadlines were a decade's leap from the previous deadlines under the HFFACO. Under the current Decree, the treatment plant (known as the Waste Treatment Plant, or WTP) is to begin

operating in 2019 and reach full-scale "initial operations" by 2022, with the 19 tanks to be retrieved during the same period. The new "end dates" under the HFFACO marked an even greater leap: Energy is to finish retrieving waste from all single-shell tanks no later than 2040, and finish treating all of Hanford's tank waste no later than 2047. These dates were established based on Energy's modeling of the rate at which SSTs could be retrieved and waste could be treated assuming the requirements of the Decree were met (i.e., that the WTP would begin operating in 2019 and reach full-scale "initial operations" by 2022).

In November 2011, less than 13 months after this Court entered the Consent Decree, Energy gave notice to the State that certain unspecified Consent Decree deadlines were "at risk." After five months of argument over whether the information would be subject to Federal Rule of Evidence 408, Energy finally identified to the State the specific "at risk" deadlines. The deadlines included both the 2019 and 2022 dates for WTP hot start and achieving initial operations, as well as a number of deadlines related to the portions of the WTP dedicated to "pre-treating" tank waste and converting the most highly radioactive fraction of the waste into glass.

Over the nearly three years since, Energy abandoned all efforts to comply with the remaining WTP-related deadlines in the 2010 Consent Decree. It is now impossible for Energy to comply with these deadlines. During the past

three years, Energy and its WTP contractor have again proceeded without being accountable to the schedule in place, without consultation with this Court, and with almost no consultation with the State, to define a new approach for completing and operating the WTP. This approach will add yet another decade or more of projected delay to the WTP. In the meantime, without an operating WTP, Energy cannot continue retrieving waste from the SSTs unless, as mitigation, additional new, compliant storage capacity is built. This means that without such mitigation, the benefit of the bargain the State was promised under the 2010 Consent Decree—which included putting Energy on course to retrieve all 149 SSTs by no later than 2040—is lost.

By early 2014, Energy had still not presented the State with a proposal to amend the Consent Decree, despite having given notice of missed deadlines more than two years earlier. On March 31, 2014, pursuant to Consent Decree Sections VII.G and X.C, the State provided Energy with the State's own proposal to amend the Decree. Energy rejected the State's amendment proposal on April 18, 2014. On April 25, 2014, under the terms of Consent Decree Section IX.A, the State triggered a 40-day dispute resolution period over Energy's rejection. Upon motion of the parties, this Court extended the dispute resolution period twice to September 5, 2014. The State and Energy were unable to resolve their dispute during this extended dispute resolution period.

Pursuant to Federal Rule of Civil Procedure 60(b)(5) and Section IX.B of the Consent Decree, the State now petitions the Court to resolve the amendment dispute between the State and Energy. The State requests that the Court adopt into the Decree three main elements of the State's March 31 proposal. The first element is a new schedule for completing construction of the WTP and bringing the WTP into initial operation. The State's proposed schedule adopts the same basic phased approach for completing construction and start-up of the WTP advanced by Energy in a September 2013 framework document. The proposed schedule is realistic and achievable, but with sufficient specificity to foster accountability and timely identify future schedule risk issues.

The second element consists of two actions to mitigate for Energy's WTP delays. These actions are to: (1) continue retrieving waste from non-compliant SSTs while start-up of the WTP is delayed; and (2) construct additional compliant tank storage capacity to allow these retrievals to move forward even without a fully operating WTP. These actions are necessary to maintain the same benefit of the bargain afforded by the 2010 Decree with respect to tank retrievals, despite the WTP delays. Completing the SST retrieval mission on the current HFFACO schedule is more essential than ever. Even under the current schedule, some SSTs may be nearly a century old by the time they are retrieved, as compared to their intended 20-30 year design life. Since the 2010 Decree was entered, there is evidence that at least one, and possibly more, SSTs

are actively leaking. The likelihood of further deterioration and leakage in the SST system will only increase with time.

Finally, the third element consists of additional Consent Decree terms to ensure greater accountability and enforceability in the Decree in light of the circumstances leading to the current state of non-compliance. These terms are to: (1) provide quarterly progress reports to the State and the Court; (2) provide a recovery plan, with a schedule, to the State and the Court, upon Energy identifying any future schedule risk(s); and (3) provide to the State and the Court an annual report identifying for each of the upcoming seven federal fiscal years, the funding needed to achieve compliance with all court-ordered requirements. These terms are necessary to help avoid a repeat of the current situation.

Under Consent Decree Section IX.B, this petition is timely brought within 30 days of the conclusion of the extended dispute resolution period.

II. BACKGROUND

A. Hanford's Tank Waste Mission

From 1944 to 1989, the federal government produced approximately two-thirds of the nation's weapons-useable plutonium at Hanford. Declaration of Suzanne Dahl-Crumpler (Dahl Decl.) ¶ 13. This activity generated highly

radioactive and chemically hazardous waste as a byproduct. Dahl Decl. ¶¶ 11-13. Today there are approximately 56 million gallons of this legacy waste remaining at Hanford. Dahl Decl. ¶ 14.

Throughout Hanford's production period, and still to this day, the federal government has lacked the capability to treat this waste into a form safe for ultimate disposal. Dahl Decl. ¶¶ 21-23. As a result, the waste—which is now in various forms of liquid, sludge, and "saltcake"—continues to be stored in 177 temporary underground holding tanks at the center of the Hanford site. Dahl Decl. ¶¶ 14-15. Hanford's tank waste mission centers on retrieving this waste from its temporary storage and treating it for ultimate disposal. Dahl Decl. ¶¶ 20-22.

1. Tank Waste Storage

Most of Hanford's tanks—149 out of the 177—are "single-shell tanks" (SSTs) that consist of a single welded carbon steel liner (the tank), encased within a concrete shell for structural support. Declaration of Jeffery Lyon

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¹ The hazardous waste portion of this mixture is subject to regulation under Washington's Hazardous Waste Management Act, chapter 70.105 RCW, through authorization under the federal Resource Conservation and Recovery Act (RCRA). *See Washington v. Moniz*, 558 F.3d 1036, 1038 (9th Cir. 2009) (discussing Washington's federal authorization to implement the HWMA in lieu of RCRA).

(Lyon Decl.) ¶¶ 7-8. The oldest were built in 1944. The newest was built in 1964. The tanks range in capacity from approximately 55,000 gallons to over 1 million gallons. Lyon Decl. ¶ 8. Today, the SSTs still hold approximately 29 million gallons of waste, much of which is of a sludge-like consistency. Lyon Decl. ¶ 7. Most of the easily pumped liquid waste has been removed from the SSTs so that much of the remaining waste is composed of sludges and solids. Any one SST, however, may still hold tens of thousands of gallons of liquid in interstitial space within the sludges. Lyon Decl. ¶ 16.

Under normal conditions, each SST was expected to only operate for an approximately 20 to 30-year "design life." The older tanks, however, have now been storing waste for some 70 years (40 to 50 years beyond their design lives) and even the newest tanks have now been storing waste for 50 years (20 to 30 years beyond their design lives). Further, most SSTs have not operated under "normal" conditions. Instead, they have been subjected to severe operating conditions due to factors such as caustic waste composition and extreme heat generated by tank contents. Lyon Decl. ¶ 9. Not surprisingly, waste has already escaped to the environment from nearly half of the SSTs (67 out of 149). Among these, at least 25 SSTs have reported breaches in the sides or bottoms of their carbon steel liners. This has caused tank waste to leak directly to the surrounding soil. There is insufficient information on which to project by how much or at what rate any given SST will further deteriorate over

a specific period. However, it is indisputable that the likelihood of further deterioration and leakage will increase with time. Lyon Decl. ¶ 10.

Present estimates are that approximately one million gallons of tank waste have been released to the environment from the SSTs. This waste includes hazardous waste constituents such as chromium, numerous other heavy metals, and volatile organic compounds, all of which are harmful to human health or the environment. In addition, the tank waste contains highly radioactive, long-lived radionuclides that, once released, will persist in the environment for tens of thousands of years.² Lyon Decl. ¶ 11. Despite Energy's initial assurances that any leakage would remain in soil beneath the tanks, in November 1997, Energy confirmed that contamination from the tanks had reached groundwater more than 200 feet below the surface. This groundwater eventually discharges to the Columbia River, which is about five to eight miles from the location of the tank farms. Lyon Decl. ¶ 12.

In regulatory terms, none of the SSTs meet applicable requirements for hazardous waste storage tanks under the federal Resource Conservation and Recovery Act (RCRA) and Washington's Hazardous Waste Management Act

² Although these radionuclides are not "solid waste" under RCRA and are not regulated by the State, see 42 U.S.C. § 6903(27); *United States v. Manning*, 527 F.3d 828, 832-33 (9th Cir. 2008), they are inextricably bound in the same waste mixture as the hazardous constituents subject to State regulation.

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(HWMA). Specifically, the SSTs lack structural integrity; they lack secondary containment; and they lack leak detection as required by 40 C.F.R. § 265.193(a)(3), (b), and (c) (incorporated by reference in WAC 173-303-400(3)³). Lyon Decl. ¶ 13. Further, all 149 SSTs have been identified to the State as "unfit for use" through an engineering assessment conducted by Energy. Lyon Decl. ¶ 14, Ex. 4. This unfit-for-use determination triggers a legal obligation on Energy's part under RCRA and the HWMA to "immediately" remove the tank from service; to, within "24 hours . . . or, if the owner or operator demonstrates that it is not possible, at the earliest practicable time," remove as much waste as is necessary to prevent release to the environment; and to "close" the tank system pursuant to state hazardous waste management standards if the system is not upgraded or repaired to meet minimum standards. Lyon Decl. ¶ 15. See 40 C.F.R. § 265.196(a), (b). The remaining 28 Hanford tanks are newer, approximately one million

The remaining 28 Hanford tanks are newer, approximately one million gallon capacity "double-shell tanks" (DSTs) intended by Energy to provide compliant storage. Lyon Decl. ¶ 19. These tanks are constructed of two welded

³ For simplicity, all succeeding citations to federal C.F.R. hazardous waste tank system requirements as incorporated into Washington's Dangerous Waste Regulations will simply be to the C.F.R. In all cases, the federal requirements are incorporated into state regulation through WAC 173-303-400(3).

steel liners (tanks), one of which is enclosed within the other to provide "secondary containment" in the event of a leak from the primary tank. Both tanks are enclosed within exterior concrete for structural support. Lyon Decl. ¶ 20. As further explained below, one DST—Tank AY-102—has recently developed a leak and must be removed from service. Lyon Decl. ¶ 21.

Hanford's DSTs are currently storing nearly 27 million gallons of waste. Lyon Decl. ¶ 7. There is only limited available DST space to allow for the further transfer of waste from the SST system, as well as the transfer of waste out of DST Tank AY-102. Without the construction of more DSTs or the availability of treatment capacity for Hanford's tank waste, no further significant transfer of waste can occur into the DST system from the aging and unfit SSTs. Lyon Decl. ¶ 24.

2. Tank Waste Treatment

Independent of the "safe storage" requirements that require SST closure, all of Hanford's tank waste is "land disposal restricted" under RCRA and the HWMA. Dahl Decl. ¶ 18. Such waste must be treated to specified standards before it can be disposed of. *Id.* Significant to this matter, such waste also cannot be stored for any longer than is necessary to accumulate "such quantities . . . as are necessary to facilitate proper recovery, treatment or disposal." 42 U.S.C. § 6924(j); 40 C.F.R. § 268.50 (incorporated by reference in WAC 173-303-140(2)(b)); *see also Washington v. Moniz*, 558 F.3d 1036,

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1038-40 (9th Cir. 2009). This "storage prohibition" is aimed at preventing the indefinite accumulation of waste in lieu of treatment. *Moniz*, 558 F.3d at 1040. As a result, even when stored in the DSTs, Hanford's tank waste is being stored in violation of the storage prohibition and must be treated to land disposal restriction standards.

As indicated above, there is still no treatment capacity for Hanford's tank waste. Since at least 1989, Energy's plan has been to build a Waste Treatment Plant (WTP) to "vitrify" the waste into glass logs. Dahl Decl. ¶ 21. In the simplest terms, the WTP will consist of four major components—the Pretreatment Facility, the Low Activity Waste Vitrification Facility, the High Level Waste Vitrification Facility, and the Analytical Laboratory—together with supporting facilities. Dahl Decl. ¶ 24. The Pretreatment Facility will separate incoming tank waste into two fractions: a low-activity waste fraction and a high-level waste fraction. Dahl Decl. ¶ 25. Each waste stream will then be routed to a respective vitrification facility (Low Activity Waste Facility or High Level Waste Facility) for immobilization. Dahl Decl. ¶ 25-27. After the waste is treated, the WTP will produce two output streams. Dahl Decl. ¶ 29. The bulk of the chemicals and some of the radioactive elements will be captured in the

²⁰ These facilities are often referred to by the following acronyms:
21 Pretreatment Facility (PT or PTF); Low Activity Waste Facility (LAW); High

Level Waste Facility (HLW); and Analytical Laboratory (LAB).

low-activity fraction (10 percent of the radioactivity and 90 percent of the volume) and vitrified as Immobilized Low Activity Waste. Dahl Decl. ¶ 29. This waste will be disposed of on the Hanford site at the Integrated Disposal Facility. *Id.* The remaining high-level radioactive fraction (90 percent of the radionuclides and 10 percent of the volume) will be vitrified as Immobilized High Level Waste. Dahl Decl. ¶ 30. This waste will presumptively be disposed of at a national deep geologic repository, currently designated by Congress to be located at Yucca Mountain, Nevada. *See In re Aiken Cnty.*, 725 F.3d 255 (D.C. Cir. 2013).

In addition to allowing Energy to address its storage prohibition violation, the WTP has also been Energy's primary solution for removing waste from the SST system, thus allowing it to be closed. Dahl Decl. ¶ 21-22. Energy has expected that over time, waste fed through the WTP from the DST system will free up DST capacity, which in turn will allow for the continued transfer of waste retrieved from the SSTs to the DSTs. Dahl Decl. ¶ 21. Under this strategy, the WTP is the lynchpin for completing the Hanford tank waste mission. Dahl Decl. ¶ 22. To this point, the WTP has been viewed as vital to both treating tank waste in satisfaction of RCRA/HWMA treatment standards and creating the "throughput" necessary to allow SSTs to continue being retrieved. Dahl Decl. ¶ 22.

B. History of Actions Under the Hanford Federal Facility Agreement and Consent Order

In order to address Hanford's numerous compliance issues, the State, the Environmental Protection Agency, and Energy entered into the HFFACO in 1989. Hedges Decl. ¶ 9. Among other things, the HFFACO is a compliance order issued pursuant to RCRA and HWMA. HFFACO Article I *available at* http://www.hanford.gov/?page=81. The HFFACO establishes numerous milestones (schedules and associated regulatory requirements) for cleanup of the Hanford site and for bringing Hanford facilities into compliance with applicable environmental requirements. Hedges Decl. ¶ 9.

The milestones established in the original 1989 HFFACO included milestones to address the treatment and prolonged storage of high-level tank waste. Under these milestones, Energy was to have completed the treatment of all tank waste by 2028. Energy was also to have completed the "retrieval" of waste from all 149 SSTs by 2018, with the benchmark for retrieval set at the equivalent of 99 percent of capacity of each SST. Hedges Decl. ¶ 10, Ex. 1. This action was to allow for closure of the unfit-for-use SST system by 2024. Finally, to mitigate the near-term risk posed by continued SST storage, the HFFACO (and later, a consent decree) required Energy to "interim stabilize" certain SSTs

prior to full-scale retrieval by removing "pumpable liquids" from the tanks and transferring those liquids to the DSTs.⁵ Hedges Decl. ¶ 10.

In order to support SST waste retrievals and complete tank waste treatment, Energy committed in 1989 to build a pilot WTP that would begin treating tank waste by 1999. Dahl Decl. ¶ 31. Five years later (1994), on the promise that the vitrification strategy would be expanded beyond a pilot to include all of Hanford's tank waste, this start date was renegotiated and extended to 2004. Dahl Decl. ¶ 32. Just two years after this renegotiation (1996), Energy adopted a "privatization" concept for building and operating the

⁵ As indicated earlier, interim stabilization does not mean that all liquids have been removed from the SSTs, or that the risk of further leaks from the SSTs to the environment has been eliminated. Rather, it means that Energy has left no more than 50,000 gallons of interstitial liquids and no more than 5,000 gallons of readily pumpable (supernatant) liquids in a subject tank. While the SST waste volume is now mostly made up of sludge (and some solids), any one SST may still hold tens of thousands of gallons of liquid occupying interstitial space within the sludge. Lyon Decl. ¶ 16. In 1999, Washington and Energy resolved a threatened lawsuit over Energy's failure to meet the HFFACO interim stabilization milestones by entering into a consent decree. *Washington v. U.S. Dep't of Energy*, CT-99-5076-EFS (E.D. Wash, 1999). Energy completed the requirements of this decree in 2010 and the decree was dismissed in 2011.

vitrification complex. Accommodating this change, the State agreed to extend the milestone for starting full-scale WTP operations to 2008. Dahl Decl. ¶ 33.

In 2000, after Energy abandoned its privatization plan, the State agreed to

yet another request from Energy to extend the WTP milestones. This time, the

start date for full-scale WTP operations was extended to 2011.⁶ Dahl Decl.

6 ¶ 34.

Construction on the WTP began in July 2002. Dahl Decl. ¶ 35. The project was beset with problems almost from the start. *Id.* As concluded by numerous federal studies and reports, the majority of factors contributing to these problems were within Energy's control: poor project management; poor contractor oversight; failure to plan for, and then promptly address, seismic issues identified as early as 2002; and failure to recognize and resolve key technical issues, which particularly affected the Pretreatment and High Level Waste Facilities. Dahl Decl. ¶¶ 35-36; *see also* Dahl Decl. ¶¶ 38, Ex. 1; 39, Ex. 2; 53, Ex. 11; 54, Ex. 12; 75, Ex. 20; 76, Ex. 21; 80, Ex. 24; 84, Ex. 27.

⁶ In addition, in 2003, the State agreed to allow Energy to move forward with testing alternative waste form technologies to supplement Waste Treatment Plant capacity, as a possible alternative to constructing a second low-activity waste vitrification facility.

⁷ The Declaration of Suzanne Dahl presents a detailed overview of Energy's project management, contractor oversight, and technical issue

These key technical issues included the potential for hydrogen gas to build to explosive levels in vessels and piping, as well as a series of interrelated issues related to waste mixing vessels in both facilities. Dahl Decl. ¶ 35.

Because of the highly radioactive nature of the waste involved, the mixing vessels were designed to be located in "black cell" rooms that will never be accessed after the facility begins operating. Dahl Decl. ¶ 63, Ex. 19 at App. C. As a result, once operations begin, it will be impossible to perform any maintenance or repair of the vessels during the 40-year design life of the WTP. Id. As early as 2002, Energy and its WTP contractor, Bechtel National, Inc. (Bechtel), were warned that their design did not provide an adequate margin of safety for the wear and tear (erosion) and corrosion that will occur in the mixing vessels during the WTP's lifespan. Dahl Decl. ¶¶ 66, Ex. 15, Table 1 at 5-8; 75, Ex. 20 at 2; 76, Ex. 21 at 1. In addition, while the vessels were designed to use "pulse jets" to maintain mixing instead of moving parts that will wear out, the design adequacy of the pulse jets was questioned in light of some of the waste characteristics (which include non-Newtonian fluids). Dahl Decl. ¶ 67, Ex. 15 at 12-14. Between 2002 and 2009, Energy took some steps to respond to these issues, but its efforts were never sufficient to eliminate questions stemming

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resolution failures, both pre- and post-2010 Consent Decree. *See generally*, Dahl Decl. ¶¶ 31-90.

from the initial design shortcomings since full scale testing was never done. 1 2 Dahl Decl. ¶¶ 66-73, Exs. 15, 19, 24. As a result of Energy's actions and inaction, the WTP project soon fell 3 years behind schedule and billions of dollars over budget. Dahl Decl. ¶¶ 23, 35, 4 5 36. By 2006, it was clear Energy would be unable to meet any of its HFFACO 6 WTP construction or tank waste treatment milestones. 7 On the retrieval side, despite the HFFACO requirement to complete all 8 SST waste retrievals by 2018, Energy did not complete its first tank retrieval 9 until 2003. Three years later, Energy missed its first major HFFACO retrieval 10 milestone, which was to complete retrieval of the grouping of SSTs that make up 11 the "C-Farm." See ECF No. 1 ¶ 33. By the 2006 milestone date, Energy had 12 retrieved only two of the 16 SSTs in the grouping. 13 In short, by 2006 it was clear Energy would be unable to meet any of its pending tank waste treatment, retrieval, or closure milestones under the 14 15 HFFACO. From 2006 to 2008, the State negotiated with Energy and the Department of Justice over a prospective new tank waste mission schedule. 16 17 This negotiation did not result in an agreement. Hedges Decl. ¶ 12. 18 C. 2008 Lawsuit and 2010 Settlement 19 In November 2008, the State filed suit over Energy's missed and certain 20 to be missed HFFACO WTP construction, tank waste treatment, SST retrieval, and SST closure milestones. Hedges Decl. ¶ 13. Among other things, the 21

State's complaint alleged that Energy had not: (1) immediately removed leaking and/or unfit-for-use SSTs from service as required by 40 C.F.R. § 265.196; (2) within 24 hours after detection of a leak or, if removal within 24 hours is not possible, at the earliest practicable time, removed as much of the waste from the SSTs as is necessary to prevent further release of hazardous waste to the environment, as required under 40 C.F.R. § 265.196(b)(1); and (3) closed the leaking and/or unfit-for-use tank system as required under 40 C.F.R. § 265.196(e)(1), in lieu of providing secondary containment and repair to the SSTs. It also alleged that Energy was storing land disposal restricted waste in violation of the storage prohibition under 40 C.F.R. § 268.50 (incorporated by reference in WAC 173-303-140(2)(b)). ECF No. 1 ¶ 21.

In August 2009, the parties agreed to a proposed settlement package that included new compliance schedules for satisfying the legal requirements outlined in the State's suit. The package was split between two legal instruments—part of it in a judicial consent decree, and part of it in amendments to the HFFACO—which were submitted for concurrent public comment. Hedges Decl. ¶ 14. The Consent Decree (which was entered by this Court in November 2010) defined new milestones for WTP construction and "hot start" (to be completed by the end of 2019), WTP initial operations (to be attained by the end of 2022), and 19 SST retrievals (to be completed by the end of 2022). The 19 SST retrievals in the Decree were negotiated based on

Energy's modeling as to how many retrievals it could accomplish before the WTP came on-line (filling remaining available DST capacity). Hedges Decl. ¶15.

Among other things, the HFFACO amendments (which were executed concurrent with Decree entry) established a schedule for further SST retrievals beyond the Decree, a new "end date" milestone for completing all SST retrievals, and a new "end date" milestone for completing all tank waste treatment. Specifically, all SST retrievals were to be completed no later than the end of 2040 and all tank waste treatment was to be completed no later than the end of 2047. Hedges Decl. ¶16. These "end dates" were negotiated based on Energy's modeling of the rate at which SST retrievals could be maintained and tank waste could be treated after the WTP came on-line. Hedges Decl. ¶17, Ex. 2 at 4-5, 6. This link between the 2010 Consent Decree schedule and the 2010 amended

HFFACO schedules was recognized in a joint State-Energy responsiveness

summary to public comment:

Recognizing that getting the WTP constructed and operational is an integral part of the entire tank waste mission, the Parties selected a settlement approach that maintained the connection between WTP construction and operation and SST retrievals and requires: (1) that USDOE remains on schedule to meet the new SST retrieval schedule; (2) that USDOE remains on schedule to meet the new WTP construction and operation schedule; and (3) contingency measures to address various risks including tank integrity.

The State determined that it could agree to the schedule and pace of SST retrievals given its expectations that USDOE will remain on

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track to meet the SST retrieval and WTP construction and operation schedule and there will be no new or increased risk of tank failure.

Hedges Decl., Ex. 2 at 5 (emphasis added).

In tandem with establishing new "end date" milestones, Ecology and Energy agreed to an ongoing "System Plan" process to model and evaluate how the retrieval and tank waste treatment missions could be conducted more efficiently (and ideally, more quickly than the "no later than" end dates). Hedges Decl. ¶¶ 18, 19. Periodic future negotiations were scheduled around specific System Plan runs. Hedges Decl. ¶ 19. In addition, the System Plan was to identify and include contingency measures that anticipated (among other matters) the possibility of further WTP construction delays, insufficient DST space to support continued retrievals on schedule, and SST integrity issues. Hedges Decl. ¶ 20, Ex. 3 at D-26 to D-27. According to the settlement language, these contingency measures "should include . . . providing new, compliant tanks with sufficient capacity and in sufficient time to complete retrievals under this agreement [i.e., no later than 2040] " Hedges Decl. ¶ 21, Ex. 3 at D-27; see also Hedges Decl., Ex. 2 at 5. Thus, building additional DST capacity was contemplated as a response to potential further WTP delays, insufficient DST capacity, and SST integrity issues.

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WASHINGTON'S PETITION TO AMEND

CONSENT DECREE

ATTORNEY GENERAL OF WASHINGTON

D. Events Since Entry of 2010 Decree

1. Notices of Consent Decree Requirements "at Risk"; Limited Information Provided to State; Energy Appears to Have Already Decided to Move on New Path That Will Not Comply With Consent Decree

In November 2011, just 13 months after the Consent Decree became effective, Energy (through the Department of Justice) gave Washington notice that one or more of the Decree milestones was "at risk." Declaration of Andrew Fitz (Fitz Decl.), Ex. 1. Between November 2011 and May 2012, the State repeatedly asked for details regarding the specific requirements at risk, the reasons why Energy believed the deadlines were at risk, and Energy's efforts to address these developments. *See* Fitz Decl., Exs. 2, 3, 4, 5. Energy refused to provide the information unless the State agreed the information would be received subject to Federal Rule of Evidence 408.8 *See* Fitz Decl., Ex. 4.

On May 4, 2012, after taking an "agree to disagree" approach to the applicability of Federal Rule of Evidence 408, the two sides met in-person. Energy officials orally confirmed they believed ten Consent Decree milestones were at risk, virtually all upcoming milestones for completing construction and

⁸Washington maintains that a meeting scheduled for the purpose of Energy providing to the State the factual and technical reasons for determining it has a serious schedule risk is a meeting concerning Energy's compliance with an order of the Court, and as such is not governed by Federal Rule of Evidence 408. Fitz Decl., Exs. 4, 5.

achieving operations of High Level Waste Facility, Pretreatment Facility, and full WTP (A-1, A-2, A-3, A-4, A-13, A-14, A-15, A-16, A-17, and A-19). Hedges Decl. ¶ 28. Energy represented that no other milestones were at risk, including those related to retrievals. *See* Fitz Decl., Ex. 6. Both at and following this meeting, Washington expressed concern with Energy's approach to the situation, including Energy's failure to provide specific details to the State.

Energy explained that its schedule risk determination was related at least in part to technical issues associated with pulse-jet mixers, erosion and corrosion in Pretreatment Facility vessels, and documented safety analysis. Hedges Decl. ¶ 28. In addition to blaming these technical issues, Energy officials, in 2012 and in 2013, also indicated that funding was having and would likely in the future have some impact on Energy's ability to comply with Consent Decree requirements. Hedges Decl. ¶ 29. When describing the role of past funding shortfalls and projected future funding constraints on Energy's ability to comply, Energy has not provided detailed budget information on the individual facilities in order to provide a clear distinction between the relative roles of funding and technical issues in delays. *Id*.

The State questioned Energy's February 2012 direction to its contractor, Bechtel, to develop a new Waste Treatment Plant baseline that assumed (1) annual funding caps and (2) that resolution of technical issues related to the Pretreatment and High Level Waste Facilities was only possible if the schedule

for those facilities was extended. Hedges Decl. ¶ 27. This meant that as early as February 2012, Energy was planning not to meet or comply with certain Consent Decree requirements, despite having sought no concurrence from the State or approval from the Court.

Following the May 4 meeting, Washington officials asked that Energy take several actions by June 13, 2012, including providing details regarding "other information" giving rise to the schedule risk (to which Energy officials vaguely alluded during the May 4 meeting) and committing to secure the State's concurrence before making future requests of its contractors that implicated Consent Decree compliance. The State also asked Energy to direct Bechtel to prepare an alternative baseline that did not assume funding limitations and was designed to meet, or come as close as possible to meeting, all Consent Decree requirements. Hedges Decl. ¶ 30.

This last request was based on the State's understanding of the Consent Decree's "good cause" requirement for schedule amendment. Under the Decree, "good cause" exists when the Decree schedule cannot be met due to circumstances and events unanticipated in the development of the schedule, or circumstances anticipated in the development of the schedule, but which have a greater impact on the schedule than predicted or assumed at the time of the schedule. Consent Decree § VII.D.1. "Good cause" does not exist if Energy can nonetheless meet the existing schedule by responding with reasonable

diligence to such circumstances or events. *Id.* "Good cause" also does not exist if Energy could have met the existing schedule if it had responded with reasonable diligence to the circumstance(s) and event(s) when they occurred. *Id.* State officials have repeatedly advised Energy that the Consent Decree allowed schedule changes only upon a showing of "good cause." Fitz Decl., Exs. 3, 6, 9, 14. In the State's view, "reasonable diligence" requires Energy to do everything in its power to implement and meet all requirements of the Decree, including proactively addressing technical concerns and aggressively pursuing funding from Congress, internal Energy sources, and any other federal sources. *See, e.g.*, Fitz Decl., Ex. 2.

By letter dated June 22, 2012, Energy declined the State's June 13 requests. Fitz Decl., Ex. 8.

2. August 2012: State Threatens Formal Action

In light of Energy's response, Washington Governor Christine Gregoire and Washington Attorney General Rob McKenna wrote Energy Secretary Stephen Chu. *See* Fitz Decl., Ex. 9; Hedges Decl. ¶ 30. The letter reiterated Washington's requests and informed Energy that the State was considering triggering dispute resolution under the Consent Decree. Hedges Decl. ¶ 30. The letter further provided:

DOE . . . appears to have already decided it will not comply with the Consent Decree based upon self-imposed limitations of (1) annual funding caps and (2) a judgment that resolution of technical issues related to the PTF and HLW is only possible if the

schedule for those facilities is extended. It has done so without evaluating whether maintaining compliance remains technically possible, and, if such an evaluation shows that meeting all Consent Decree requirements is not technically possible, without evaluating scenarios geared to still come as close as possible to meeting the current schedule.

Fitz Decl., Ex. 9 at 1.

In mid-September 2012, Secretary Chu contacted Governor Gregoire and committed to become personally involved in the situation. The Secretary indicated that over the next few months, he would devote substantial personal time and would bring together a panel of noted experts to assist Energy in addressing WTP technical issues. Hedges Decl. ¶ 32. He invited State participation in this process. State officials determined that the Secretary's commitments would suffice as a response to the State's August 29, 2012, letter. Fitz Decl., Ex. 10; Hedges Decl. ¶ 32. State officials expected the effort to be completed in early 2013. *See* Fitz Decl., Ex. 11; Hedges Decl. ¶ 33. State officials expected that upon conclusion of the effort, Energy would propose a new schedule for construction and operation of the WTP.

On January 14, 2013, Secretary Chu sent a letter to Governor Gregoire summarizing the status of the expert panel's efforts and indicating that he had reorganized the local Energy office "to implement the solutions identified

⁹ This did not mean the State was foregoing any of its legal options or remedies. Rather, it meant that the State would defer making any decisions about pursuing formal remedies while the Secretary's process was underway.

through this expert review process." Secretary Chu described work on some of the technical issues as being sufficient to allow Energy to move forward, while more work and testing remained for other issues. Secretary Chu did not identify an expected conclusion date for any of this work, nor did he identify when Energy might propose a new schedule for WTP construction. Hedges Decl. ¶ 34, Ex. 8.

Shortly after this letter, Secretary Chu announced he would be leaving office. Hedges Decl. ¶ 35, Ex. 9. In March 2013, the State asked that prior to Secretary Chu's departure, Energy provide a schedule for completing review of all technical issues associated with WTP design. Hedges Decl. ¶ 35, Ex. 10. No schedule was forthcoming. In May 2013, the State informed Energy that it considered any "brainstorming" phase of work to be over and that it expected to receive in the very near future a proposal for resolving technical issues and meeting WTP obligations. Hedges Decl. ¶ 35, Ex. 11. When incoming Secretary Ernest Moniz visited Washington State in June 2013, he committed to Governor Inslee that he would provide a plan for moving forward by the end of summer. Hedges Decl. ¶ 36, Ex. 12.

In September 2013, Energy provided its Draft Hanford Tank Waste Retrieval, Treatment, and Disposition Framework document to Washington. Hedges Decl. ¶ 37, Ex. 13. The Framework document described a three-phased start-up of the WTP. Construction and start-up of the Low Activity Waste

Facility would occur during phase 1; construction and start-up of the High Level Waste Facility would occur during phase 2; and start-up of the Pretreatment Facility would occur during phase 3. Hedges Decl. ¶ 37, Ex. 13 at 4–5. Beyond describing these phases in a conceptual manner, the document provided little detail, contained no schedule for any of the phases, and did not in any way address SST retrievals. *Id.* The document's cover letter expressly stated that "the enclosed Framework is not a proposal to amend the Consent Decree." Hedges Decl. ¶ 37, Ex. 14.

State officials met with Energy representatives three times between September and December 2013. Hedges Decl. ¶ 39. The September and October meetings focused on the draft Framework document and the December meeting was designated as the Three-Year Review meeting called for by the Consent Decree, Section VI. Hedges Decl. ¶ 39; see Consent Decree § VI. State officials repeatedly asked Energy and Department of Justice representatives for proposals for changes to Consent Decree requirements with justifications for such changes and for a description of how such proposed changes would impact other requirements. Hedges Decl. ¶ 40. Between September 2013 and March 2014, Energy did not provide a proposal to change Consent Decree requirements with justifications for such changes nor did Energy describe how a new schedule would impact other requirements like completing waste treatment and retrieval obligations in the HFFACO. Hedges Decl. ¶ 40.

Meanwhile, following Energy's November 2011 "at risk" notice, Energy gave the State three more notices that Decree milestones were at risk (June 6, 2013, October 8, 2013, and September 22, 2014). Fitz Decl. ¶¶ 14, 15, 17, Exs. 12, 13, 15. The June 2013 notice identified one Low Activity Waste Facility construction milestone at risk and the October 2013 notice labelled all the remaining Low Activity Waste Facility milestones as at risk. The June 2013 and September 2014 notices identified SST retrieval milestones at risk, indicating that Energy would not complete retrieval of four of ten SSTs required to be completed by September 30, 2014. See id. Combined, these four notices mean that 14 of the 16 pending Consent Decree deadlines are at risk, with two past deadlines missed and not vet completed as of the date of this Petition. Hedges Decl. ¶ 41.

3. **New Tank Issues**

In addition to Energy's "at risk" notifications, there have been at least two other significant developments since the entry of the 2010 Decree. First, in October 2012, Energy disclosed that DST Tank AY-102 has a leak between its inner and outer shells. This means that one of Hanford's 28 DSTs must now be taken out of service. Second, in February 2013, Energy disclosed that as many as six SSTs appeared to be actively leaking waste. As of the date of this Petition, Energy now considers one of these SSTs (Tank T-111) to be actively leaking.

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a) DST AY-102 Out of Service Due to Internal Leak

Double-Shell Tank AY-102 was constructed in 1968 as one of Hanford's first DSTs. It has a capacity of one million gallons and currently contains about 800,000 gallons of hazardous and radioactive sludge and liquid waste. In its River Protection Project System Plan, Rev. 6, Energy identified this waste to be the first low-activity and high-level waste feeds for the Waste Treatment Plant hot commissioning. However, in fall of 2012, Energy notified the State of a leak from the underside of AY-102's primary tank into its secondary containment. Continued monitoring indicates the leak is growing. There is at least a risk of ultimate breach to the environment. As identified by the Defense Nuclear Facilities Safety Board, there is also a risk, that the leaked material could eventually clog ventilation channels underneath the tank, a matter of concern because of the high heat generated by the waste. Lyon Decl. ¶21.

Washington's Dangerous Waste Regulations require that the tank and its secondary containment be removed from service, emptied of waste, inspected to determine if it's repairable, and closed if it is not repairable. 40 C.F.R. § 265.196. Energy is now subject to a settlement agreement with the State to carry out these tasks. Although Energy has not yet made a determination that the tank cannot be repaired, it is presumed that this will be the conclusion after the tank is emptied and inspected. As a consequence, Hanford's total DST capacity has been reduced by one million gallons. Lyon Decl. ¶ 22.

b) At Least One SST Identified With Active Leak to Surrounding Soils

In December 2012, Energy informally reported to the State that it was investigating a possible leak from Tank T-111. Tank T-111 was built between 1943-44 and was put into service in 1945. It contains 447,000 gallons of sludge, with an interstitial liquid volume of 38,000 gallons (approximately 8.5 percent by volume liquid). It was classified as an "assumed leaker" in 1979 and was interim stabilized in 1995. On February 15, 2013, Energy provided official notice that the waste level in Tank T-111 has decreased, indicating a possible release of tank liquid to surrounding soils. Energy has indicated that the current rate of loss of liquids from the tank could be in the range of 150 to 300 gallons over the course of a year. A specific cause of the liquid level decrease in Tank T-111 has not been determined. Lyon Decl. ¶ 17.

A week after the Tank T-111 leak was announced, it was announced that five more SSTs appeared to be leaking. Although Energy has since declared that none of the five are leaking, the State does not consider the evidence conclusive for one of the five, due to monitoring data and an unusual and not well-documented waste surface profile. Lyon Decl. ¶ 18.

III. REASONS FOR THE STATE'S REQUEST FOR RELIEF

Reluctantly, the State recognizes that Energy is so far off track on WTP construction that it is impossible to recover and comply with the current schedules under the Decree. Rather than seeking to sanction Energy, the State

believes it is in the better long-term interest of Hanford's tank waste mission to instead seek amendment of the Decree to impose a new, realistic, but achievable, schedule for completing construction of the WTP and bringing the WTP into initial operation; impose requirements to continue retrieving waste from non-compliant SSTs while the WTP is delayed (together with constructing sufficient storage capacity to facilitate these retrievals); and add terms to the Consent Decree to ensure greater accountability and enforceability in light of the circumstances leading to the current state of noncompliance.

Two overriding concerns have shaped the State's proposal. First, events since the Consent Decree was entered demonstrate that the Decree requires more specificity, accountability, and enforceability to avoid a repeat of the current situation. These terms should be reflected in the framework of the amended schedule itself, as well as in other provisions of the Decree. Second, to maintain the level of substantive relief provided by the 2010 Decree (i.e., preserve the "benefit of the bargain"), any Decree amendment should include sufficient mitigation for the WTP delay to keep the tank waste retrieval mission on track despite the delay. This mitigation is for Energy to retrieve additional waste from SSTs and construct additional DST capacity to facilitate that retrieval.

A. The Events Since the Consent Decree Was Entered Demonstrate That the Decree Requires More Specificity, Accountability, and Enforceability

1. Energy's WTP Problems Have Continued Since Entry of the 2010 Consent Decree

The events since 2010 demonstrate a continuation of the problematic WTP project management patterns demonstrated by Energy prior to entry of the Decree. Once again, numerous federal studies and reports since the Decree was lodged and entered outline a persistent lack of institutional awareness of, or competence toward, project management issues (including contractor review), technical details, and safety design concerns, as well as a lack of consistent affirmative action toward addressing schedule risks. There is a mountain of information on the topic. However, the situation was succinctly summarized by one report that concluded: "By just about any definition, DOE's WTP project at Hanford has not been a well-planned, well-managed, or well-executed major capital construction project." Dahl Decl. ¶ 43, Ex. 5.

Perhaps most significant to the WTP schedule, Energy has still not resolved issues concerning mixing vessels and piping in the Pretreatment and High Level Waste Facilities; namely, erosion and corrosion in the vessels and related piping, as well as the design adequacy of pulse-jet mixers in the vessels, despite being repeatedly informed of the issues and associated risks by the

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¹⁰ Again, a more detailed overview of Energy's ten-plus years of WTP failures is provided in the Declaration of Suzanne Dahl, ¶¶ 31-90.

Defense Nuclear Facility Safety Board, and the Government Accountability Office. Dahl Decl. ¶¶ 54-61, 70-73, 86. After years of re-designs based on analyses/calculations and small-scale testing with stimulants that were not representative of Hanford tank waste, Energy finally realized in 2012 that it had to go back to square one to do full-scale testing of a mock vessel, then proceed with design. Full scale testing of the actual WTP vessels prior to installation, however, became cost and schedule prohibitive. Dahl Decl. ¶¶ 66-72. Instead, in March 2014, Energy arrived at a new approach: (1) build a characterization and preconditioning facility to pretreat the waste before it goes to the Pretreatment Facility; and (2) use smaller, standard designed and sized vessels, which would be tested at full scale. Dahl Decl. ¶ 73, Ex. 19.

In another example, a critical disconnect has continued between the engineering design of the project—particularly as related to the High Level

In another example, a critical disconnect has continued between the engineering design of the project—particularly as related to the High Level Waste and Pretreatment Facilities—and the "safety basis" review of that design, which confirms it complies with Energy's own nuclear safety standards. This disconnect, together with confusion over and inconsistency in applying the standards to be used for the safety basis review, has led to outright project dysfunction. Although these issues have been present for years, the extent of impact the issues have had on the viability of the project was neither appreciated nor corrected by Energy. This contributed to Energy halting

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1 construction on both facilities in 2012, with construction yet to resume. One 2 report summarized the situation as follows: 3 The information from multiple sources, . . . point to safety culture issues with personnel who are directly involved in the design and 4 engineering functions and the nuclear safety basis analysis and review functions... As examples: there are inconsistencies 5 between contractual documents (e.g., safety basis review procedures) and regulatory requirements; and DOE-STD-3009 was 6 not consistently applied over the years, so part of the existing safety basis documents and some aspects of the design may not 7 comply with DOE-STD-3009 and 10 CFR 830, impacting the ability to gain approval of the final [Documented Safety Analysis]. 8 In addition, [Preliminary Documented Safety Analyses, or PDSAs] are out of date, and various reviews have highlighted significant 9 deficiencies in PDSAs and safety basis processes in general. . . . 10 The above factors and other conditions . . . have contributed to a situation where there is often severe tension and frequent 11 animosity within and between personnel with nuclear safety design and safety basis responsibilities.... With the factors described 12 above, neither [engineering design nor safety basis] organization has performed their responsibilities effectively; technical questions 13 and differing opinions have not been effectively resolved because the requirements are conflicting or not commonly understood, the 14 procedures do not match the requirements, the previous analyses (e.g., PDSAs) are not reliable, and the safety basis organization is 15 understaffed 16 Most of the above factors have been in place for ten years. However, until the past few years, it appears that safety basis 17 documents were often not reviewed by the [safety basis] organization and ORP against the requirements of DOE-STD-18 3009.... The situation has become increasingly worse as the WTP design has progressed, the PDSA has become further out of 19 date, and the delays in safety reviews of design and engineering documents have become longer. . . . 20 [M]ost of the contributing factors listed above result from actions 21 or inactions at higher levels of ORP, DOE-WTP, and BNI management. ORP, DOE-WTP, and BNI management has not

1 achieved timely resolution of important issues, including those discussed above; in some cases, issues have remained unresolved 2 for about ten years. Dahl Decl. ¶ 42, Ex. 4 at vii-viii (emphasis added). 3 In a further example, it became apparent that Energy and its contractor 4 had failed to document compliance with quality assurance standards for the 5 "black cell" mixing vessels in the High Level Waste and Pretreatment 6 Facilities—the same vessels subject to ongoing erosion and corrosion concerns. 7 Again, Energy had earlier failed to appreciate or correct the problem: 8 9 The Office of Inspector General received allegations concerning aspects of the quality assurance program at the Department of Energy's \$12.2 billion Waste Treatment and Immobilization Plant 10 (WTP) project in Hanford, Washington. . . . 11 In brief, it was alleged that quality assurance records for the critically important "black cell" waste processing vessels were not 12 traceable to work performed. . . . 13 Our review substantiated the allegation. In short, we found that the Department had procured and installed vessels in WTP that did 14 always meet quality assurance and/or contract requirements.... The importance of black cells and hard-to-reach 15 components cannot be overstated. Premature failure of these components could potentially impact safety, contaminate large 16 portions of a multi-billion dollar facility and interrupt waste processing for an unknown period of time. . . . 17 The matters discussed in this report come at a time when concerns 18 about safety at WTP have been raised and the Department is working to ensure a proactive safety culture at WTP.... While 19 these actions are encouraging, we are concerned that the prior reviews performed by Bechtel and the Department failed to fully 20 identify the extent of the problems with the missing or incomplete 21 22

quality assurance documents, and that weaknesses in oversight

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still exist. 2 Dahl Decl. ¶ 45, Ex. 6 at Summary Memorandum 1-3 (emphasis added). 11 3 In yet another example, Energy has continued to demonstrate a tendency 4 to push back near-term work and planning; what in colloquial terms can be 5 called "kicking the can down the road." Prophetically, a 2011 report warned 6 that this practice sets the stage for future delays of even greater magnitude and 7 cost: 8 With respect to schedule performance, the Committee found that 9 between January and July 2011, nearly 7% of the remaining to-go schedule activities (1,260 activities out of 18,620 activities) were moved out to later dates. . . . 10 11 The [C]ommittee has a concern about this practice of moving out of the near-term window (3-6 months) work that cannot or will not be accomplished, namely, that a "bow-wave" of work will begin to 12 accumulate in the remaining period of performance. When this bow wave of work can no longer be moved to a later period, the 13 amount of critical and near-critical activities rise, [and] the risk 14 that these activities cannot be accomplished on schedule and on 15 ¹¹ Similar audit findings were made in 2013 with respect to Bechtel's 16 broader design control documentation, with the audit alleging that the problems 17 had "led to the creation of major design vulnerabilities." See Dahl Decl. ¶ 46, 18 Ex. 7 at 2-3. The audit further concluded: "Although management reported 19

that it had resolved the specific issues discussed in these reports, our most

recent work demonstrates that additional attention to quality assurance is

necessary." Id. at 3.

budget will also rise due to trade stacking, craft labor availability, and greater impacts associated with material or engineering holds.

Dahl Decl. ¶ 41, Ex. 3 at 48 (emphasis added).

2. The Events Since Entry of the 2010 Consent Decree Show Gaps in the Decree's Terms

This situation, together with the manner in which Energy has interacted with the State and responded under the Consent Decree, has exposed four gaps in the Decree's terms. First, structurally, the 2010 Consent Decree afforded Energy considerable leeway in how it satisfied the Decree's requirements. For instance, rather than including detailed interim milestones by which to measure progress, Energy prevailed upon the State to accept fewer, more general milestones in order to allow Energy greater flexibility in delivering the ultimate results required under the Decree. Thus, Appendix A to the Decree includes only 19 milestones for the entire WTP project (compared to the more than 18,600 schedule activities cited above), with only four rather general construction milestones in the span of eight years for the technically challenged Pretreatment Facility:

- Complete Structural Steel Erection Below Elevation 56' in PT Facility (12/31/2009)
- Complete Élevation 98' Concrete Floor Slab Placements in PT Facility (12/31/2014)
- Complete Installation of Pretreatment Feed Separation Vessels FEP-SEP-00001A/1B (12/31/2015)

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- PT Facility Construction Substantially Complete (12/31/2017)
- Consent Decree, Appendix A, Milestones A-18, A-19, A-13, A-14.

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Similarly, the Decree defined only three general construction milestones in the span of six years for the technically challenged High Level Waste Facility:

- Complete Construction of Structural Steel to Elevation 14' in HLW Facility (12/31/2010)
- Complete Construction of Structural Steel to Elevation 37' in HLW Facility (12/31/2012)
- HLW Facility Construction Substantially Complete (12/31/2016)

Consent Decree, Appendix A, Milestones A-20, A-21, A-2.

The State accommodated Energy's request for these limited and general milestones based on the State's underlying assumption that, faced with having to comply with a court order, Energy would be motivated to correct past WTP project management difficulties and make every effort to comply with the Decree's mandate to create a functioning WTP. In retrospect, these milestones were too limited in number, too general, and too separated in time to ensure that the Decree effectively shapes Energy's approach to the WTP and measures Energy's progress before any slips become too great. This is particularly important as the parties move forward, since both the State and Energy agree that a "phased" approach to completing the WTP is appropriate in which the Low Activity Waste Facility is constructed and begins operating ahead of the other WTP facilities. Energy has been criticized in its development of the phased approach for not developing a sufficiently detailed analysis of all the

actions and costs incumbent with the approach. See Dahl Decl. ¶ 93, Ex. 32 at 2-5.

Second, the 2010 Consent Decree contains no reporting requirements to the Court. Instead, it contains requirements to provide the State with a written monthly "summary report," *see* Decree § IV.C.2, and more comprehensive semi-annual reports, *see* Decree § IV.C.1, both of which are to document Energy's progress and compliance status under the Decree.

In theory, these reports should be a key accountability measure under the Decree, obliging Energy to keep the State timely informed of its progress. In practice, these reports failed to provide the State with timely notice of Energy's WTP schedule problems. Indeed, in the months leading up to Energy's November 2011 notice of "at risk" milestones, Energy's quarterly reports gave no indication of looming long-term schedule issues. *See* Hedges Decl. ¶ 25, Ex. 5.

Further confounding the utility of these reports, Energy and the Department of Justice have insisted on characterizing communications concerning milestones "at risk," and describing the steps Energy might take to avoid missing Decree deadlines, as "settlement" communications subject to Federal Rule of Evidence 408. In the case of Energy's November 2011 notice, this led to more than five months of delay before Energy even met with the State to identify the specific Decree milestones at issue, as well as discuss its actions in

response to the circumstances. Once Energy itself determined it was going to miss Decree milestones, it effectively set off on its own course without involving the State or the Court. As the State wrote to Energy in April 2012, before the parties finally met to discuss Energy's November 2011 notice:

State officials are seriously troubled by the fact that more than four months have passed and yet DOE has failed to describe to the state the information that leads DOE to believe certain requirements of the Decree may be at risk of being missed, and the steps that DOE is taking to avoid missing Decree deadlines. Equally as troubling are the numerous public statements by DOE officials and their contractors suggesting to us that DOE may be proceeding forward as if [DOE] is not bound by the court's Decree and is able to unilaterally establish a new set of requirements and schedule.

Fitz Decl., Ex. 5.

Third, the last point above highlights an additional "accountability" gap in the 2010 Decree. The Decree contains no express requirement to, as soon as schedule risks are identified, create and submit for Court approval a recovery plan to maintain compliance with, or come as close as possible to maintaining compliance with, those requirements of the Consent Decree that are at risk.

As indicated above, since receiving initial notice in 2011, the State has consistently maintained that the "good cause" provisions for amending the Decree require Energy to do everything within its power to meet the legal obligations in the Consent Decree by exercising reasonable diligence to identify and respond to technical issues, performing effective project management, exercising strong oversight of its contractors, and seeking sufficient funds or

reprogramming funds to meet its obligations. In May 2012, after learning Energy had tasked its contractor with creating a new WTP baseline with presumed delays and budget limitations, the State sent Energy a letter asking it to have its contractor develop an alternate "unconstrained" baseline intended to maintain as closely as possible compliance with the Decree. Fitz Decl., Ex. 6. Energy declined the State's request. Fitz Decl., Ex. 8.

By September 2013, the State had still not received any submission from Energy concerning how it proposed to move forward with the WTP project, despite Energy taking action on its own, outside the Decree, to move forward in a new direction. By the time Energy submitted its draft "Framework Document" to Ecology, Energy had already substantially committed to this new direction by giving its contractor direction to proceed with planning for Direct Feed Low Activity Waste. Hedges Decl. ¶ 38. For two-and-one-half years after Energy first notified the State that it could not likely meet the current court-ordered schedule, the State waited for Energy to engage it and the Court with how it plans to rectify its noncompliance. Without an express requirement for such engagement, however, Energy effectively defined a new direction without State and Court approval.

Fourth, Energy has cited funding issues (both past restrictions and projected future shortfalls) as part of the reason it cannot meet Consent Decree requirements. Hedges Decl. ¶¶ 27, 29. The State believes included in the

Consent Decree obligation to exercise reasonable diligence is an obligation on Energy's part to do everything within its power to seek sufficient funds (through appropriation requests and through reprogramming funds from other sources) to comply with Consent Decree obligations. *See, e.g.*, Fitz Decl., Ex. 2. Yet, when describing how funding may impact its ability to meet courtimposed deadlines, Energy has provided unclear and unspecific information. Hedges Decl. ¶ 29. This means the State is unable to assess the role of funding and whether the situation is within or beyond Energy's control. In order for the State and the Court to be able to evaluate this issue in the future, Energy should be required to periodically show the Court and the State what it views as a compliant budget. Thus, the State's requested relief seeks an annual report to the Court wherein Energy will describe upcoming funding needs for meeting all requirements in the Consent Decree.

B. The Consent Decree Must Include Mitigation for WTP Delays in Order to Maintain the Benefit of the Bargain Provided by the 2010 Decree

As indicated above, the balance struck in the parties' 2010 settlement was to: (1) place requirements in the Consent Decree specifying that the WTP would be operational by 2022, with 19 SSTs retrieved by the same date; and (2) commit new dates for all remaining tank waste mission tasks—which include retrieving waste from all remaining SSTs and completing the treatment of all tank waste—to the HFFACO. The HFFACO milestones for these tasks,

however, were based on the key premise that Energy would comply with the Consent Decree. In particular, having the WTP achieve "initial operations" by 2022 was a key basis for completing all SST retrievals by no later than December 31, 2040, and completing all tank waste treatment by no later than December 31, 2047. At the time the 2010 settlement was executed, the Parties indicated that the pace of retrievals would reach "about 6-7 tanks per year by the early 2020s" based on the expectation that the WTP would achieve "initial operations" status by 2022. Lyon Decl. ¶ 31.

Without mitigation, the current and future delays in achieving full WTP operations will set back the SST retrieval and tank waste treatment missions. Due to limited current available capacity in the DST system (recently reduced one million gallons due to the leak in DST Tank AY-102), Energy cannot maintain retrievals under the current retrieval compliance schedule. Lyon Decl. ¶¶ 23-34. At the same time, completing the SST retrieval mission on the current HFFACO schedule is more essential than ever. As Energy itself has concluded, the long-term leak integrity of any SST "cannot be proven." Lyon Decl. ¶ 10, Ex. 3. It is indisputable, however, that the likelihood of further deterioration and leakage will only increase as time passes. Lyon Decl. ¶ 10. In the past two years, there is evidence of at least one newly active leaking SST (Tank T-111), with the possibility that more SSTs may be also actively leaking. Lyon Decl. ¶¶ 17-18. Delays in waste retrieval today will only make further

retrieval more difficult, costly, and risky due to changes in the waste forms within the tanks, as well as the increased possibility that tanks may leak during the process of retrieval. Lyon Decl. ¶ 10.

To mitigate for Energy's WTP delays and keep the waste retrieval mission on track, the Decree should include requirements to retrieve additional waste from SSTs. However, no further significant transfer of waste can occur without first either reducing the volume of waste currently in the DST system through treatment, or by increasing the storage capacity of the DST system by building more DSTs. Lyon Decl. ¶¶ 24, 30. Because even under the State's proposed schedule, the WTP will not reach full-scale "initial operations" until 2031, the Decree should also include requirements to build additional DST capacity.

IV. REQUEST FOR RELIEF

A. Amendment Process Under the Consent Decree

Generally, the schedules in the Consent Decree may only be amended if:
(1) a request for amendment is timely; and (2) good cause exists for the amendment. Section X.C of the Decree, however, provides that:

Notwithstanding any other provision of this Decree, the State reserves the right to (1) seek amendment of this Decree, if previously unknown information is received, or previously undetected conditions are discovered, and these previously unknown conditions or information together with any other relevant information indicates that the work to be performed and

schedule under this Decree are not protective of human health or the environment

Consent Decree § X.C.

Here, Energy's failure to comply with the schedule for constructing and achieving initial operations of the WTP; the magnitude of Energy's continuing pattern of project management difficulties; the fact that a DST now must be taken out of service (thus further diminishing available capacity in the DST system); and evidence that at least one SST is actively leaking, together constitute "previously unknown information... or previously undetected conditions" that indicate that the present schedule and terms of the Decree "are not protective of human health or the environment."

Consent Decree Section VII sets out the process for amending the Decree. In short, the party proposing an amendment must provide the proposal in writing to the other party. Consent Decree § VII.A.1. The receiving party then has 10 working days to notify the proposing party whether or not the amendment is acceptable. *Id.* If the receiving party determines that the amendment is not acceptable, it must notify the proposing party in writing of its reasons for disagreement. In that event, the proposing party may invoke the Decree's dispute resolution process. Consent Decree § VII.A.3.

The Decree's dispute resolution process requires that the parties "endeavor to settle [the dispute] by good faith negotiations among themselves." Consent Decree § IX.A. If the parties cannot resolve the issue "within a

reasonable time, not to exceed forty (40) calendar days from the date of the 1 2 written demand for good faith negotiations," then either party may seek 3 appropriate relief from the Court pursuant to Consent Decree Section IX.B. *Id.* 4 That Section provides: 5 If the dispute is not resolved within 40 days from the date of the written demand for good faith negotiations of the dispute, either 6 party may petition the Court for relief. A petition seeking appropriate relief from the Court shall be filed within thirty (30) 7 calendar days of the end of the 40-day period provided for in Section IX-A. The Court shall resolve any such disputes under a 8 de novo standard of review. 9 Consent Decree § IX.B. 10 Here, the State submitted its amendment proposal to Energy on 11 March 31, 2014. On April 18, 2014, Energy timely rejected the State's amendment.¹² On April 25, 2014, the State triggered the 40-day dispute 12 13 resolution period, which was twice extended by this Court. Despite both parties 14 working in good faith, the State and Energy were unable to resolve their dispute 15 during this extended dispute resolution period. This petition is timely brought 16 within 30 days of the conclusion of the extended dispute resolution period. 17 18 19 ¹² Upon mutual agreement, and as allowed by Consent Decree Section 20 21 VII.A.4, the parties extended the 10-day timeline for responding to an

amendment proposal.

B. Legal Standard for Consent Decree Amendment

Courts have authority to enforce and modify consent decrees. A court "may interpret and enforce a decree to the extent authorized either by the decree or by the related order." *Pigford v. Veneman*, 292 F.3d 918, 923 (D.D.C. 2002). Courts also have the inherent authority to modify a decree entered by an order of the court. This authority is codified in Federal Rule of Civil Procedure 60(b). *Bellevue Manor Assocs. v. United States*, 165 F.3d 1249, 1252 (9th Cir. 1999).

Under Federal Rule of Civil Procedure 60(b)(5), a party to a consent decree may obtain relief from a court when it "is no longer equitable" that the judgment should have prospective application. Fed. R. Civ. P. 60(b)(5). It is within the court's discretion to grant or deny relief under Rule 60(b). *Lasky v. Continental Products Corp.*, 804 F.2d 250, 256 (3d Cir. 1986).

To obtain modification under Federal Rule of Civil Procedure 60(b)(5), a moving party must satisfy the initial burden of establishing a significant change in circumstances that warrant modification, *Rufo v. Inmates of Suffolk Cnty. Jail*, 502 U.S. 367, 383 (1992), and do so by a preponderance of the evidence. *Democratic Nat'l Comm. v. Republican Nat'l Comm.*, 673 F.3d 192, 202 (3d Cir. 2012). The proposed modification must also be "suitably tailored to the changed circumstances." *Bellevue Manor Assocs.*, 165 F.3d at 1255 (adopting the *Rufo* standard for modifications under Rule 60(b)(5)). In determining whether modification to a decree is so tailored, the court should consider

whether the modification "resolve[s] the problems created by the change in circumstances," but "should do no more." *Rufo*, 502 U.S. at 391. Courts have held that a modification is suitably tailored when the decree is modified "no more than was necessary to approximate the positions the parties would have occupied had the [noncomplying party] lived up to their obligations under the Consent Decree" *Thompson v. United States HUD*, 404 F.3d 821, 832 (4th Cir. 2005).

Factual changes in circumstances, such as unexpected noncompliance by one of the parties to a consent decree, can serve as a basis for modification. In *Thompson v. United States HUD*, the Fourth Circuit found that the district court did not abuse its discretion by finding that the moving party did not anticipate the magnitude of a party's failure to comply with the terms of the consent decree. *Thompson*, 404 F.3d at 828; *see also David C. v. Leavitt*, 242 F.3d 1206, 1213 (10th Cir. 2001). The Fourth Circuit additionally found that the district court did not abuse its discretion when it concluded that the noncompliance amounted to a significant change in circumstances warranting modification of the decree. *Thompson*, 404 F.3d at 828. As outlined in pages 21 through 31, *supra*, in this case there is both significant noncompliance with terms of the Decree and significant new circumstances that have arisen since the Decree was entered.

The State requests that the Court resolve the State's dispute with Energy by adopting as terms into the Consent Decree those portions of the State's proposal identified below. Under the terms of Section X.C of the Decree, the State has proposed an amendment that: (1) addresses Energy's current noncompliance through a new schedule for completing the WTP that is realistic and achievable, with sufficient specificity to foster accountability and timely identify schedule issues; (2) to maintain the same level of substantive relief (benefit of the bargain) afforded by the 2010 Decree, includes the requirements that Energy continue retrieving waste from non-compliant SSTs while the WTP is delayed, as well as construct additional compliant tank storage capacity to facilitate this retrieval; and (3) includes terms to ensure greater accountability and enforceability in the Decree, in light of the circumstances that led to Energy's current state of noncompliance. As framed below, the State's amendment "resolve[s] the problems created by the change in circumstances" and "[does] no more." See Rufo, 502 U.S. at 391. The terms below are suitably tailored to do "no more than was necessary to approximate the positions the parties would have occupied had the [noncomplying party] lived up to their obligations under the Consent Decree." See Thompson, 404 F.3d at 832. Put another way, the terms preserve the benefit of the bargain of the 2010 Decree. As such, the terms should be adopted into the Decree by the Court.

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C. Portions of the State's March 31, 2014 Amendment Proposal That Should be Adopted Into the Consent Decree

Based on the above, the State respectfully requests that the Court make the following amendments to the Consent Decree. All of the requested amendments either directly reflect terms of the State's March 31, 2014, amendment proposal to Energy, or reflect a lesser scope of relief that is subsumed within the terms of the State's March 31 amendment proposal.

1. New WTP Schedule

Revised Exhibit A provides a detailed schedule for all portions of the WTP, including new facilities and processes necessary to carry out the "phased" approach to completing construction and start-up of the WTP. *See* Proposed Order, Revised Exhibit A. Revised Exhibit A replaces the current Appendix A in the 2010 Consent Decree. All of the facilities and processes identified in Revised Exhibit A must be constructed and brought to full operation in order for WTP to treat Hanford's tank waste.

The State developed Revised Exhibit A recognizing that delays in the current Consent Decree schedule are unavoidable. The State seeks to replace the current Appendix A with a schedule that is aggressive, but technically possible. Still, the resulting changes are significant. For the Low Activity Waste Facility (which does not present significant unresolved technical issues), the delay in hot start would be three years from the current 2019 deadline for hot start of the entire WTP, with a two-year delay in achieving full-scale initial

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operations. The delays for the other major facilities are longer: for the High Level Waste Facility, hot start is delayed seven years and operations is delayed five years. Finally, for the Pretreatment Facility and the full WTP, hot start is delayed ten years and initial operations are delayed nine years. The attached Declaration of Suzanne Dahl provides a detailed description of the assumptions and rationale behind the proposed schedule. *See* Dahl Decl. ¶¶ 94-139.

2. Continued SST Retrievals

Exhibit D is a new exhibit to the Consent Decree that, during the period of extended WTP delay (2022-2031 under Revised Exhibit A), provides requirements and deadlines for Energy to continue retrieving waste from SSTs. *See* Proposed Order, Exhibit D. Following the standard of doing "no more than [is] necessary to approximate the positions the parties would have occupied had the [noncomplying party] lived up to their obligations under the decree," *Thompson*, 404 F.3d at 832, Exhibit D requires Energy to retrieve waste from the SSTs at a pace on track to meet the HFFACO's "no later than 2040" deadline, just as if Energy had complied with the Decree's terms to begin operating the WTP in 2019 and reach full-scale "initial operations" in 2022.

After the retrievals remaining under the current Consent Decree, Appendix B, are completed no later than September 30, 2022 (and retrieval of Tank 241-A103 is completed under HFFACO milestone M-045-15 by the same date), there should be approximately 27 million gallons of waste remaining in

the SST system, with 18 years and three months left before the HFFACO's deadline to complete all SST retrievals. Lyon Decl. ¶ 23. Assuming a roughly equal measure of SST waste is retrieved each year, this means Energy must remove at least 13 million gallons of waste by September 30, 2031 (the date proposed in Revised Exhibit A for achieving full WTP "initial operations") in order to remain on pace to meet the HFFACO deadline. *Id.* Exhibit D is based on this assumption, requiring Energy to reduce the total volume of waste in the SSTs to no more than 14 million gallons by September 30, 2031, with intermediate pacing requirements. *See* Proposed Order, Exhibit D.

As matters now stand, no further significant transfer of waste can occur without first either reducing the volume of waste in the DST system through treatment, or increasing the storage capacity of the DST system by building more DSTs. Lyon Decl. ¶¶ 24. The State has evaluated Energy's projected DST waste volume in 2022 (approximately 24 million gallons), the amount of DST space projected to be available to be filled by more SST waste in 2022 (approximately 4.8 million gallons), the amount of additional DST capacity projected to be created by operation of Direct Feed Low Activity Waste Facility operation between 2024 (the start of Direct Feed Low Activity Waste Facility "initial operations") and 2031 (approximately 11.9 million gallons), the amount of waste needing to be retrieved from SSTs during the 2022-2031 period under Exhibit D (approximately 13 million gallons), and the factor by which the

amount of SST waste "grows" during retrieval due to the introduction of liquid to support retrieval, followed by some reduction of that volume through evaporation processes (a factor of 2.23, which means that retrieving 13 million gallons of SST waste results in a net increase in the volume of waste needing storage to approximately 29 million gallons). *See* Lyon Decl. ¶¶ 24-30, 33-38. If this is viewed in terms of balancing two sides of a ledger, the State concludes that while 16.7 million gallons of available DST space can be projected during the period from 2022-2031 (approximately 4.8 million gallons of starting space plus approximately 11.9 gallons of space created through DFLAW operation), there will be approximately 29 million gallons of SST waste needing storage in the DST system during the same period. This results in a net DST space deficit of approximately 12 million gallons during the period. Lyon Decl. ¶ 37.

This 12 million gallon space deficit must be addressed for Energy to be able to reduce the total volume of waste in the SSTs to no more than 14 million gallons by September 30, 2031. The clearest way to address the deficit is to build additional DST capacity. Exhibit D thus requires Energy to add DST capacity in a phased manner. Under the schedule, Energy must design, construct, and bring into operation four million gallons of new DST capacity by 2022. *See* Proposed Order, Exhibit D, milestones D-4 through D-9. To address the remaining eight million gallons of space deficit, the State has designed Exhibit D to provide Energy the flexibility of showing in two phases that it can

create DST space or otherwise accommodate the volume of SST waste coming into the DST system through means other than constructing additional DST capacity, with the default of building additional DST capacity if this showing cannot be made. *See* Proposed Order, Exhibit D, milestones D-10 through D-14.

3. Additional Accountability Measures

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As described in pages 31 through 41, *supra*, the events since the 2010 Consent Decree was entered demonstrate a need for more specificity, accountability, and enforceability in the Decree. Some of these measures are reflected in the new WTP schedule in Revised Exhibit A, which provides more detailed and comprehensive project deadlines than the 2010 Decree. However, the need for further accountability measures is shown by the manner in which Energy's WTP project came off the rails within 13 months of the Consent Decree's entry. Energy provided no clue of the magnitude of pending schedule issues in its reporting under the 2010 Decree. Prolonged gaps in Energy's communication with the State followed. When Energy did communicate with the State, it came with argument over whether the communications would be subject to Federal Rule of Evidence 408 and with few details provided (including with respect to the significance of funding issues in delay). The State waited some two-and-one-half years after Energy's initial "at risk" notice and invited Energy to propose a Consent Decree amendment addressing the

situation, without response. In the meantime, Energy effectively set off on its own course without involving the State or the Court. In the end, the State finally had to initiate its own amendment proposal, which is now before the Court.

The State's Proposed Order includes amendment to three terms of the

The State's Proposed Order includes amendment to three terms of the 2010 Consent Decree to address these circumstances. The first is a requirement to submit quarterly status reports to both the State and the Court, with requirements to provide a planning report for the upcoming quarter, address project successes and failures over the past quarter, disclose any emerging technical issues, describe any procurement issues, and track progress toward Consent Decree milestone compliance. *See* Proposed Order.

The second is a proposed new Section IV.E to the Consent Decree. This section requires Energy to timely inform the State and the Court of a milestone "at risk" situation and calls for Energy to, in conjunction with any milestone "at risk" notification, timely inform the State and the Court of Energy's plan for addressing the situation, together with a proposed schedule of recovery actions. *Id*.

Finally, the third measure is a proposed new Section VIII.B to the Consent Decree. This section requires Energy to annually by March 1, disclose to the State and the Court the total funding needed to achieve compliance with

all requirements of the Consent Decree for each of the upcoming seven federal 1 fiscal years. 2 These terms are necessary to help avoid yet another repeat of the current 3 situation. Together, the terms ensure greater accountability and enforceability 4 5 in the Decree in light of the circumstances leading to the current state of noncompliance. 6 V. 7 CONCLUSION 8 Based on the foregoing, the State respectfully requests that the Court 9 adopt into the Consent Decree the elements of the State's March 31, 2014 10 amendment proposal described above. 11 DATED this 3rd day of October, 2014. 12 ROBERT W. FERGUSON **Attorney General** 13 s/ Andrew A. Fitz 14 MARY SUE WILSON, WSBA #19257 Sr. Assistant Attorney General 15 ANDREW A. FITZ, WSBA #22169 Senior Counsel 16 LEE OVERTON, WSBA #38055 DOROTHY H. JAFFE, WSBA #34148 17 **Assistant Attorneys General** Attorneys for Plaintiff 18 State of Washington Office of the Attorney General 19 P.O. Box 40117, Olympia, WA 98504-0117 (360) 586-6770 20 marysuew@atg.wa.gov andyf@atg.wa.gov 21 leeo1@atg.wa.gov dorij@atg.wa.gov 22

1	PROOF OF SERVICE
2	I certify that I electronically filed the foregoing document with the Clerk
3	of the U.S. District Court using the CM/ECF system which will send
4	notification of such filing to all parties of record as follows:
5 6 7 8 9 10 11 12	 Amanda Shafer Berman amanda.berman@usdoj.gov Roger J DeHoog roger.dehoog@doj.state.or.us Andrew A Fitz andyf@atg.wa.gov,daniellef@atg.wa.gov,ecyolyef@atg.wa.gov David Kaplan david.kaplan@usdoj.gov Cynthia J Morris c.j.morris@usdoj.gov,EFILE_EDS.ENRD@USDOJ.GOV Stephanie Marie Parent stephanie.m.parent@doj.state.or.us,Rhonda.K.Gearheart@doj.state.or. us,Toni.C.Kemple@doj.state.or.us Mary Sue Wilson
13 14 15 16 17 18 19 20 21	marysuew@atg.wa.gov,ecyolyef@atg.wa.gov DATED this 3rd day of October, 2014. S/ Andrew A. Fitz MARY SUE WILSON, WSBA #19257 ANDREW A. FITZ, WSBA #22169